

Agricultural Chemical Applications, Iowa, 2003

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
-----Pounds per Acre-----					
Corn ¹	Percent	Number			
Fertilizers:					Million lbs.
Nitrogen	93	1.4	94	133	1,544.3
Phosphate	59	1.0	61	64	468.6
Potash	65	1.0	80	83	670.6
Herbicides:					1,000 lbs.
2,4-D	3	1.0	0.45	0.45	154
Acetamide	4	1.0	0.43	0.43	225
Acetochlor	37	1.0	2.06	2.06	9,570
Atrazine	70	1.0	0.91	0.99	8,598
Clopyralid	9	1.0	0.10	0.10	113
Dicamba	3	1.0	0.19	0.19	72
Dicamba, Dimet. salt	4	1.0	0.10	0.10	51
Dicamba, Sodium salt	2	1.0	0.12	0.12	29
Di flufenzopyr-sodium	4	1.0	0.04	0.04	24
Dimethenamid-P	6	1.0	0.46	0.46	320
Flumetsulam	9	1.0	0.04	0.04	47
Glufosinate-ammonium	7	1.0	0.29	0.29	256
Glyphosate	10	1.0	0.79	0.85	1,070
Isoxaflutole	17	1.0	0.07	0.07	135
Mesotrione	27	1.0	0.09	0.09	301
Metolachlor	3	1.0	1.91	1.91	622
Nicosulfuron	15	1.0	0.02	0.02	42
Rimsulfuron	14	1.0	0.01	0.01	22
S-Metolachlor	17	1.0	1.49	1.49	3,074
Insecticides:					
Chlorpyrifos	3	1.0	1.01	1.01	366
Cyfluthrin	5	1.0	0.005	0.005	3
Tebupirimphos	5	1.0	0.10	0.10	63

¹ Planted acres in 2003 for Iowa were 12.4 million acres.

The agricultural chemical use estimates refer to on-farm use of commercial fertilizers and pesticides on targeted crops for the 2003 crop year. The targeted crops for Iowa only included corn. Farm and ranch operators were enumerated late in the growing season after the farm operator had indicated that planned applications were completed.

The data were compiled from the Agricultural Resources Management Survey (ARMS). The main portion of data collection time frame occurred during the months of October-December of 2003.

This report excludes pesticides used for seed treatments and postharvest applications to the commodity. Spot treatments, which account for a very small percentage of total applications, are also excluded.